

Information & Education Overview



2007 Pictured at Navajo Nation - Monument Valley, UT:
Debby Tewa, Vircyntia Charley, Cherylin Wilson, Larry
Ahasteen, Nick Johnson, Melissa Parrish & Thom Sacco



DOE's Tribal Energy Program **Three Pronged Approach**

**Financial
Assistance**

*Success through
Government-to-
Government
Partnerships*

**Technical
Assistance**

*Leveraged through
Intergovernmental
Coordination*

**Information &
Education**

*Leveraged with Intra-
governmental
Coordination*



Organization

Program Management through DOE Headquarters, implementation through the DOE Golden Field Office, and technical support through the DOE's Laboratories

Program Management

Younes Masiky
Weatherization and Intergovernmental Program
Office of Energy Efficiency and Renewable Energy (EERE)
Department of Energy, HQ (DC)

Implementation

Lizana Pierce
Project Management
DOE, Golden field Office (GO)

CNVJ Support (Contractor)
Jami Alley, Lead
Cass Gillham
Kris(topher) Venema

Technical
Assistance

Sandia National Laboratories
Sandra Begay-Campbell (NM)

National Renewable Energy Laboratory
Roger Taylor (CO)
Brian Hirsch (AK)



Managing the Program

Strategies to Meet Shared Vision

Developed in cooperation with Tribes (December 2001)

- 1) Leverage existing networks to facilitate inter-Tribal experience sharing
- 2) Clearinghouse of Tribally relevant information
- 3) Develop markets for Tribal renewable energy*
- 4) Influencing and facilitating funding opportunities
- 5) Assure visible success in Tribal renewable energy projects
- 6) Coordinate legislative strategy to meet Tribal renewable energy projects*
- 7) Establish teams to develop regional and topical strategic plans
- 8) Create opportunities for Tribal professional development

* Not addressed



Education & Training

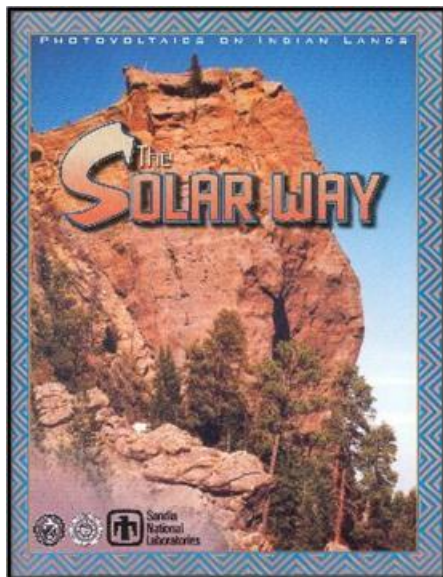
Opportunities for Tribal Professional Development & Inter-tribal Experience Sharing

- Annual Program Review
- National Workshops
 - Business Development and Financing
 - Renewable Energy and Energy Efficiency
- Tribe Specific or Regional Trainings
 - Upon Request and within available resources

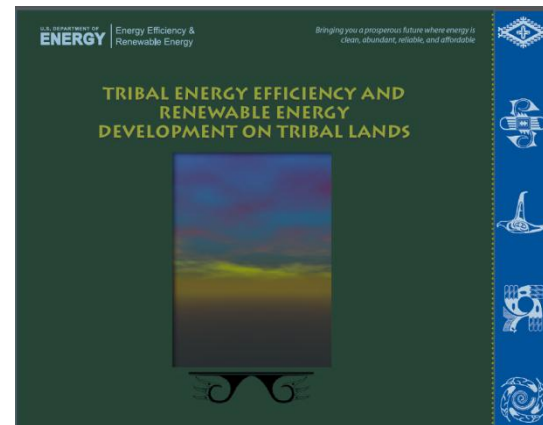
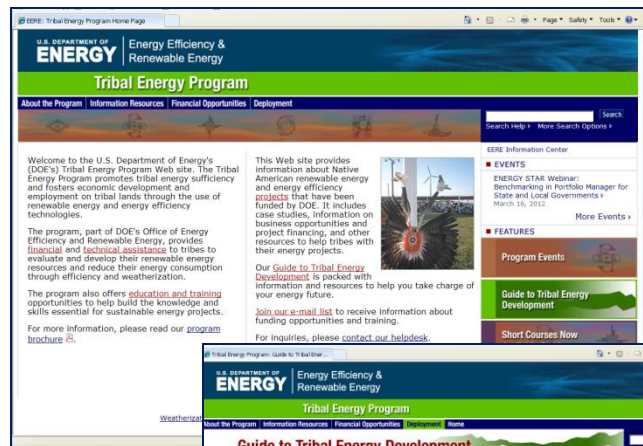


Building Human Capacity in Indian Country





Information Resources



Tribal Energy Website

**Guide to Tribal Energy
Development**



Join Our Email List

**For Information on funding opportunities, workshops & training, and
other Tribal energy information**

Email tribal@go.doe.gov



Student Summer Internships Tribal Professional Development

Internship

- 12 week internships at Sandia National Laboratories

Hands-On Experience

Interns gain experience with the following renewable energy systems:

- On-grid photovoltaic installations — New Mexico
- Off-grid photovoltaic electricity system — Arizona and New Mexico
- Off-grid PV/small wind hybrid system — Arizona, Utah (Navajo), and California (Ramona)
- Large-scale commercial wind farm — New Mexico (Taiban Mesa)
- Solar power tower — New Mexico (Sandia Labs)
- Distributed energy resource systems: large PV array, micro-turbine, fuel cell, large battery bank — New Mexico (Sandia Labs)

Interns

- Twenty-three (23) interns sponsored since 2002



Deborah Tewa (certified electrician & solar installer) at Sandia's PV Laboratory (2002)



2008 Interns' participation in PV installation & training workshop (AZ-Hopi)

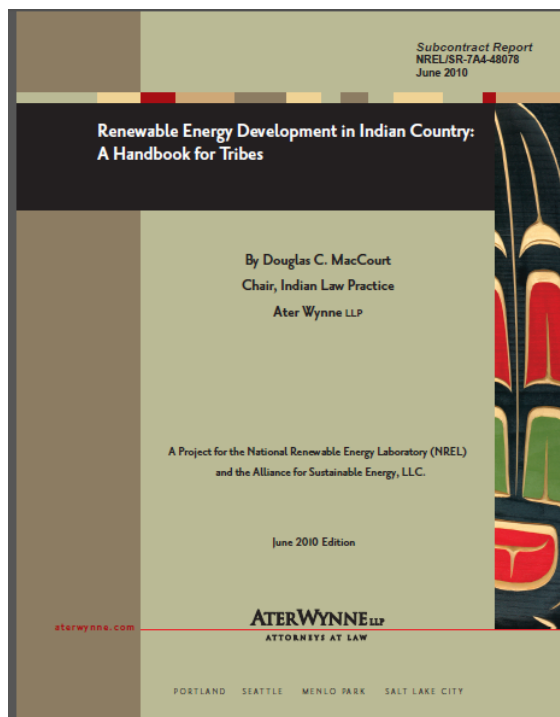
Information & Education

- ✓ **Informational Resources – L. Pierce**
 - **Informational Material**
 - Program Publications
 - Short Courses, Handbooks, and Tools
 - Webinars
 - **Information Dissemination (Email Notices & Inquiries)**
 - **Websites**
 - Program Site
 - Guide to Tribal Energy Development
 - Website Statistics
- ✓ **Training – R. Taylor**
- ✓ **Student Internships – S. Begay-Campbell**

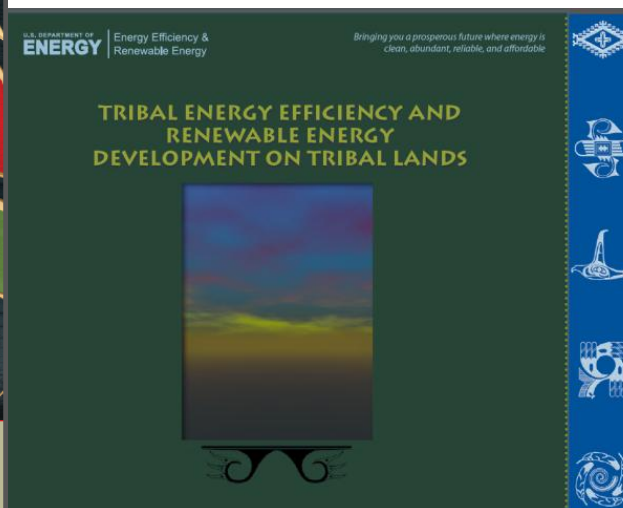


Informational Material

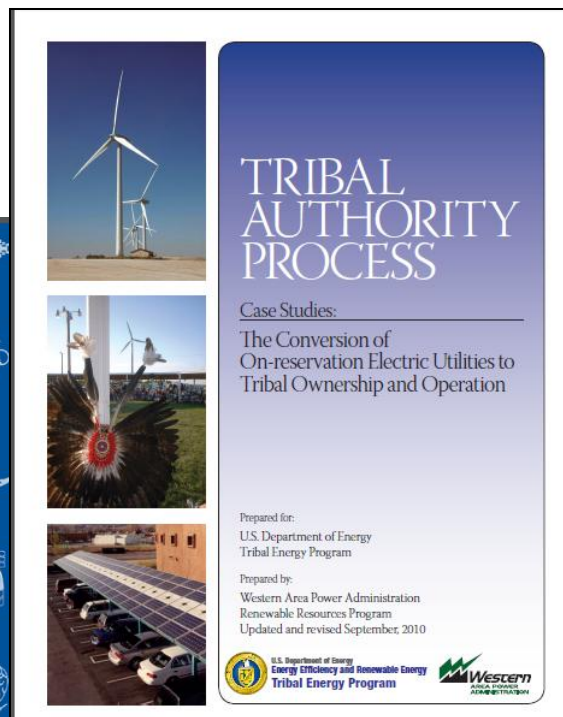
Program Publications



A Handbook: Renewable
Energy in Indian Country



Program Brochure



Tribal Utility Case Studies

All Material Posted on Program Website



Informational Materials

Short Courses

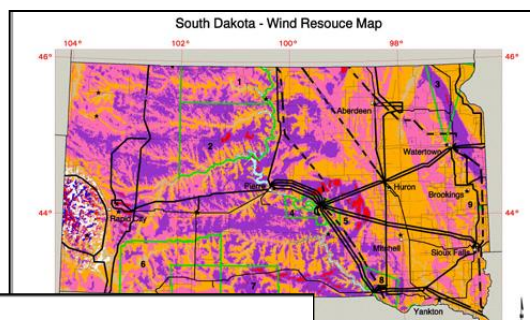
- Analysis & Economics
- Business & Financing
- Community Development
- Demand-side Options
- Renewable Technologies

Handbooks & Guides

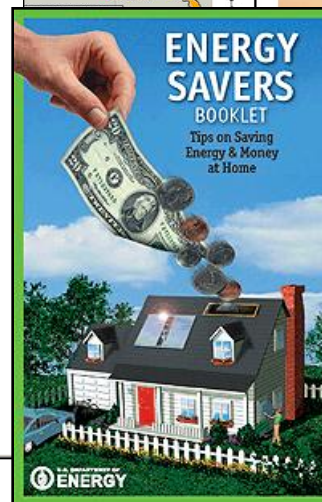
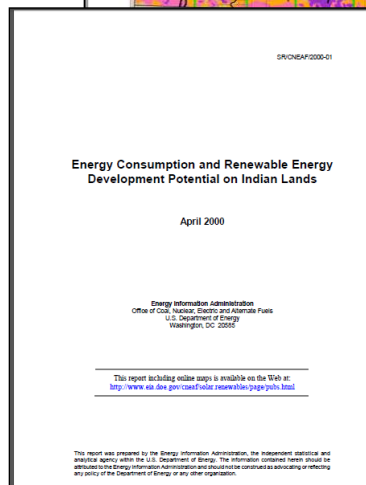
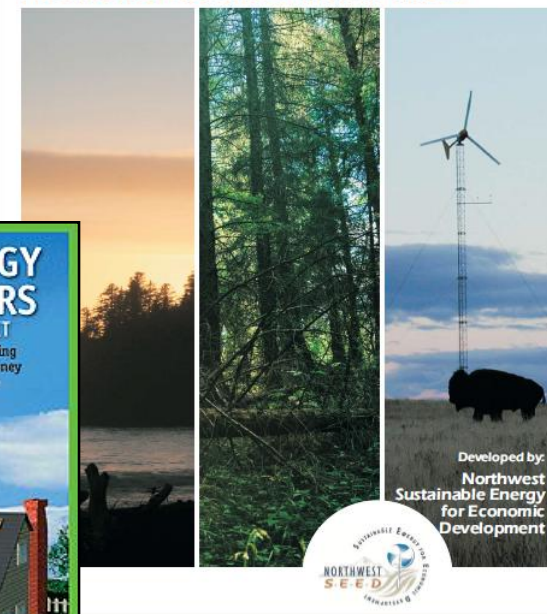
- A Guide: Energy Planning
- Energy Consumption and Renewable Energy Development on Indian Lands
- A Handbook: Renewable Energy in Indian Country

Tools & Models

- Resource Potential Maps
- Reservation Specific Wind Maps



Energy Planning: A Guide for Northwest Indian Tribes



All Material Posted on Program Website



Informational Material

Free Tribal Webinar Series (2011-2012)

In cooperation with the DOE's Office of Indian Energy Policy and Programs (OIEPP), the U.S. Environmental Protection Agency's (EPA's) Green Power Partnership Program, and Western Area Power Administration (WAPA)

Past Webinars

- Overview of the U.S. Environmental Protection Agency's Green Power Program (1/25/2012)
- Overview of US Department of Energy Power Marketing Administrations (11/30/2011)
- Challenges and Opportunities with Tribal Renewable Energy Development (8/17/2011)

Upcoming Webinars

- Understanding the Interconnection and Transmission Service Queues (3/28/2012)
- Today's Energy Supply — Yesterday's Grid (5/30/2012)
- Grid Reliability — Impacts to Tribal Renewable Projects (7/25/2012)
- DOE Office of Indian Energy's START Program Status Updates (9/28/2012)

Previous Webinars

- Technical Assistance for Tribes (11/15/2010)
- Hydropower 101 (9/27/2010)
- Geothermal Energy 101: Characteristics, Development, and Utilization of Geothermal Resources (8/27/2010)
- Wind Energy 101: Fundamentals, Applications, and Markets (7/23/2010)
- Tribal Energy Project Development Through ESCOs (4/21/2010)
- Tribal Energy Program Monthly Webinar: Solar Energy - Capturing and Using Power and Heat from the Sun (3/24/2010)
- Tribal Energy Strategic Planning (2/24/2010)
- Planning and Strategy Development for Tribes (6/12/2009)
- Planning and Strategy Development for Tribes (5/28/2009)
- Planning and Strategy development for Tribes (5/18/2009)

All Material Posted



Information Dissemination

As subscribers, Tribes receive periodic newsletters and bulletins about:

- The Tribal Energy Program's training opportunities and events
- Funding opportunities through our program and other federal programs and agencies
- Other news and information related to Tribal energy.

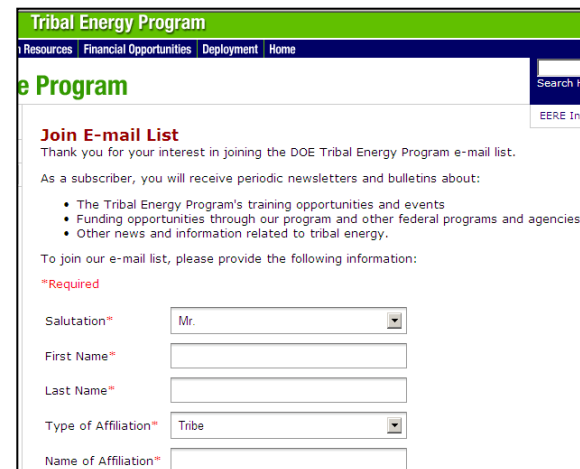
Over 3,000 Subscribers to Email List

100's of Email Notices Sent Each Year

Distributed through Other Tribal and Agencies (BIA, EPA, ONAP, USDA)

Easy On-line Subscription

On-line Inquiry Capability



The screenshot shows the 'Tribal Energy Program' website with a green header. Below the header is a navigation bar with links: Resources, Financial Opportunities, Deployment, and Home. The main content area is titled 'e Program' and features a 'Join E-mail List' section. It includes a thank you message for interest in joining the DOE Tribal Energy Program e-mail list and a list of topics subscribers will receive: training opportunities, funding opportunities, and other news. Below this, it asks for subscription information, with a red asterisk indicating required fields. The form includes dropdown menus for Salutation (Mr.), Type of Affiliation (Tribal), and Name of Affiliation, as well as text input fields for First Name and Last Name. A search bar is visible in the top right corner.



Program Website

- Features
- Program Brochure
- Upcoming Events
- Short Courses
- Financial Opportunities
- Projects on Tribal Lands
 - Project Summaries
 - Status and Reports
 - Contacts
- Information Resources
- Join Email List
- Contacts



Clearinghouse of Information

www.eere.energy.gov/tribalenergy



Program Website

Projects on Tribal Lands

- Project Lists Sorted by
 - Tribe
 - Award year
 - Award type
 - Technology
- Project Map (List by State)
- Project Summaries
 - Overview
 - Scope
 - Location
 - Status
 - Presentations
 - Final reports
 - Tribal contacts

The screenshot displays the Tribal Energy Program website interface. The top navigation bar includes links for 'About the Program', 'Information Resources', 'Financial Opportunities', 'Deployment', and 'Home'. The 'Deployment' section is active, showing a list of projects on tribal lands. A map of the United States is visible, with states color-coded by project location. The 'Projects in California' section lists various tribes and their project details.

Deployment

Projects on Tribal Lands

The Tribal Energy Program supports a variety of energy-related projects on tribal lands. To see a list of tribal energy projects by location, select a state from the links in the left column to see a list of projects by tribe, funded, by the type of award (feasibility study, demonstration, solar, biomass, etc.).

Each project has a detailed description that includes a tribal energy project summary, project description, project status, project period, project contact, and project location.

Deployment

Projects in California

This page lists projects in California.

- Agua Caliente Band of Cahuilla Indians 2010
- Agua Caliente Band of Cahuilla Indians 2005
- Augustine Band of Cahuilla Mission Indians 2006
- Bishop Paiute Tribe 2010
- Cabazon Band of Mission Indians 2003
- Campo Band of Mission Indians 2010
- Chumash Indians, Santa Ynez Band 2011
- Elk Valley Rancheria 2010
- Fort Bidwell Indian Community 2005
- Fort Mojave Indian Tribe 2003
- Hopla Valley Tribe 2006
- Hopla Valley Tribe 1995
- Hopla Valley Tribe 1994
- Karuk Tribe of California 2007
- Luiseno Indians, Soboba Band of 2011
- Manzanita Band of Mission Indians 2002
- Manzanita Band of Mission Indians 1999
- Manzanita Band of Mission Indians 1995
- Mesa Grande Band of Mission Indians 2004
- Morongo Band of Cahuilla Mission Indians - Southwest Tribal Energy Consortium 2006

Deployment

Agua Caliente Band of Cahuilla Indians - 2005

Project Description

The Agua Caliente Band of Cahuilla Indians will establish a comprehensive energy strategic plan that captures economic and environmental benefits while continuing to respect tribal cultural practices and traditions. Their goal is to understand their current and future energy consumption, and they will develop a strategic energy plan, including an action plan to clearly identify the energy options for the tribe. The project is anticipated to have a positive impact on the tribe; promote greater understanding of energy efficiency; establish partnerships with energy stakeholders, including electric and natural gas suppliers; and position the tribe to be influential with regional energy development.

Project Status

The project is complete. For details, see the final report (PDF 490 KB) and the October 2005 (PDF 217 KB) and October 2006 (PDF 3.0 MB) presentations provide additional information. [Download Adobe Reader.](#)

Project Contact

Todd Hooks (760.883.1350)

Project Overview	
Tribe/Awardee:	Agua Caliente Band of Cahuilla Indians
Location:	Palm Springs, CA
Project Title:	Development of a Strategic Energy Plan
Type of Application:	First Steps
DOE Grant Number:	DE-PS36-05G015173
Project Amounts:	DOE: \$89,312 Awardee: \$15,393 Total: \$104,705
Project Status:	Completed More
Project Period of Performance:	Start: September 2005 End: August 2006

Assuring Visibility of Tribal Projects



Guide to Tribal Energy Development

Development Process

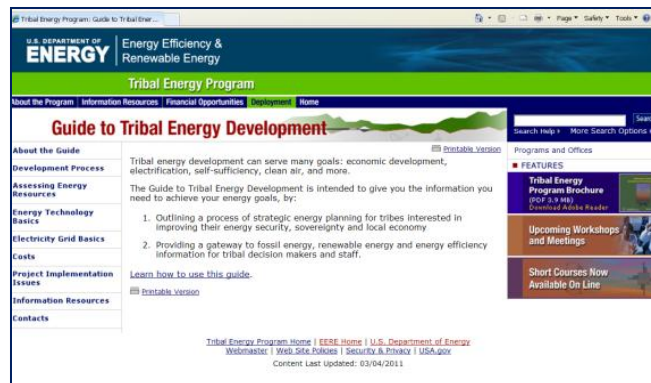
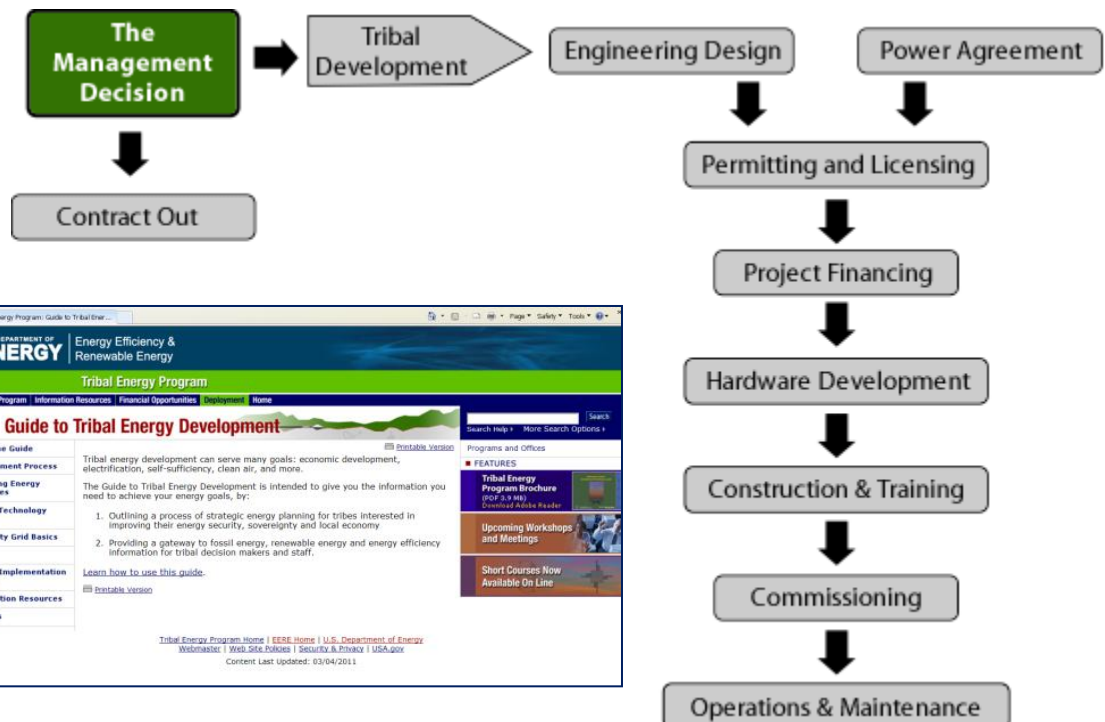
- Strategic Planning
- Options Analysis
- Organizational Development
- Project Development

Business & Financing

- Short Courses
- Handbooks

Resource Library

- Energy Resources
- Technologies
- Costs
- Risk Factors
- Legal Issues
- Financing Options
- Contacts



Clearinghouse of Information

www.eere.energy.gov/tribalenergy/guide



Program Websites

Real-Time Demonstration?



Website Statistics

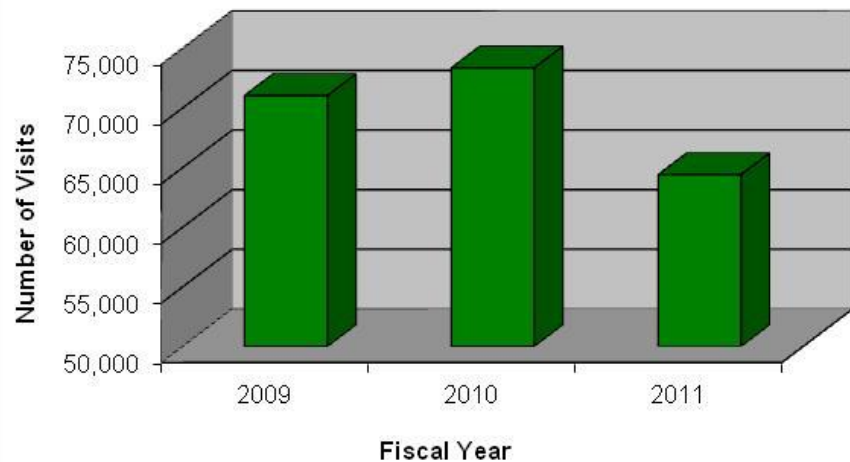
Average of 70,000 website visits every year

- 10% of visitors spend 10 to 60 minutes per visit
- 13% viewed more than 5 web pages, 7% Viewed 10 or more pages

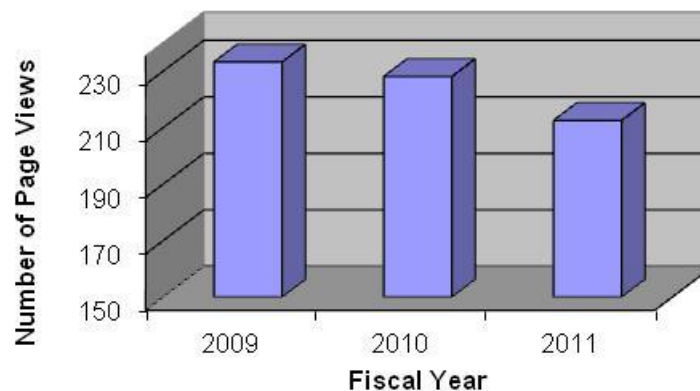
Over 220,000 pages viewed per year

- Over 670,000 page views during 3 years
- 35% spend 10 minutes or more per page view

Website Visits



Thousands of Page Views

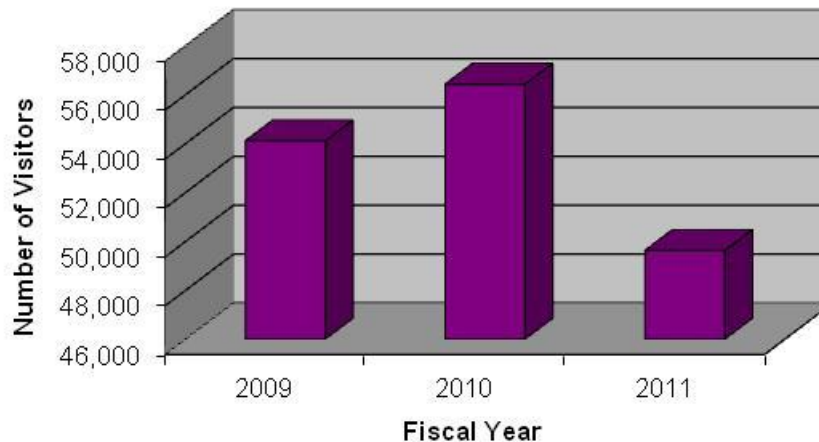


Website Statistics

Over 40,000 different visitors per year

- 43% or 30,000 repeat visitors per year
- Average of 190 visits per day
- Only 11% are government or commercial visitors

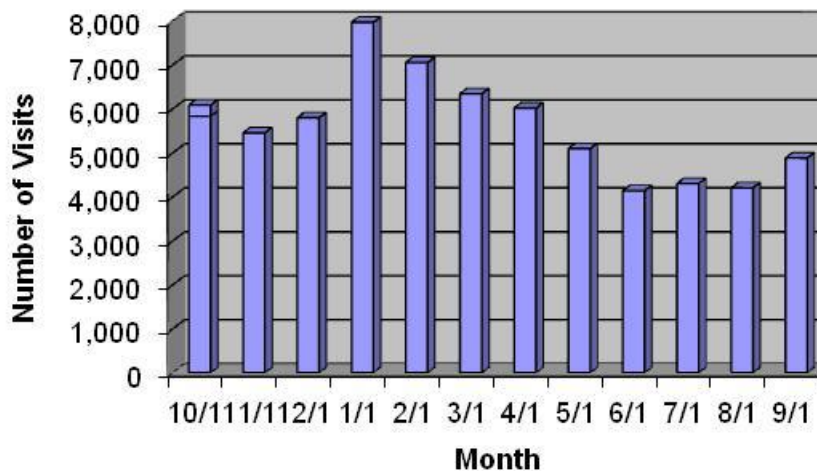
Website Visitors



Most Viewed Pages

- Home Page
- Government Grants
- Guide Home Page
- Upcoming Events
- Financial Opportunities
- About the Program
- Guide - Biomass
- Guide - Wind Projects
- Projects
- Information Resources

Visits By Month



Information & Education

- ✓ Training – R. Taylor
- ✓ Student Internships – S. Begay-Campbell

